

I CLAIM

1. The brake of an electric motor comprising:

An electric motor having a power output spindle extending outward at the front end:

5       A shaft coupling rotary disc having a plurality of engage members extending forward and spaced apart equidistantly around its outer circumferential edge, said shaft coupling rotary disc bored axially with a recessed groove and a shaft hole in the center, said shaft hole and  
10       said spindle having the same shape and coupled with each other to rotate together: and

A brake comprising a base, a drive rod and a controlling rotary member:

Said base provided inside with a round base hole  
15       for receiving a torsion spring therein, said torsion spring having two ends respectively bent inward to form an actuating member, said base hole having its opposite sides respectively covered by a sealing cover, each said sealing cover bored axially with a pivotal insert hole in  
20       the center:

Said drive rod shaped as an elongate column, said drive rod positioned in said torsion spring after inserted through said pivotal insert hole of one said sealing cover, said drive rod provided with a drive member protruding  
25       upward at a central portion, said drive member of said drive rod pushing against said actuating member of said torsion spring: and,

Said controlling rotary member bored axially with a shaft hole, said controlling rotary member having its rear outer circumference formed with a serrated portion, said serrated portion engaging with said engage members  
5 of said shaft coupling rotary disc, said controlling rotary member having its front portion inserted in said round base hole of said base, the front portion of said controlling rotary member having its opposite side edges respectively formed with an interacting portion, said  
10 interacting surfaces of said controlling rotary member pushing against the inner side of said actuating members of said torsion spring, said drive rod pivotally inserted in said shaft hole of said controlling rotary member, said drive member of said drive rod protruding out of said  
15 pivotal shaft hole of said controlling rotary member.

2. The front brake of an electric motor as claimed in Claim 1, wherein said spindle of said electric motor is fitted thereon with a gear to be directly engaging with said serrated portion of said controlling rotary member.

20 3. The front brake of an electric motor as claimed in Claim 1, wherein a gear is fitted on said spindle of said electric motor, and a gear-like belt connects said gear and said serrated portion of said controlling rotary member, the teeth of said gear-like belt and said gear  
25 and said serrated portion of said controlling rotary member engaging with one another.

4. The front brake of an electric motor as claimed

in Claim 1, wherein said controlling rotary member is formed integral and axially bored with a shaft hole, having its front side bored with plural insert holes and its rear side formed with an interacting surfaces, said  
5 shaft coupling rotary disc having one end formed with plural protruding studs to be respectively fitted in said insert holes of said controlling rotary member.

5. The front brake of an electric motor as claimed in Claim 1, wherein said base of said brake is axially  
10 bored in the center with a round base hole having its opposite sides respectively covered with a movable sealing cover.

6. The front brake of an electric motor as claimed in Claim 1, wherein said base of said brake is axially  
15 bored with a round base hole in the center, and one said sealing cover on one side of said base hole is formed integral with said base, and the other said sealing cover on the other side of said base hole is movable.

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